

Attorney Docket No.: RU-0224
Inventors: Fennell et al.
Serial No.: 10/828,781
Filing Date: April 21, 2004
Page 3

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A method for remediating a material contaminated with a halogenated aromatic compound comprising introducing a culture of *Dehalococcoides ethenogenes* strain 195 into a material contaminated with a halogenated aromatic compound so that said strain removes at least one halogen group from the aromatic compound thereby remediating the material.

Claim 2 (original): The method of claim 1, wherein the culture comprises a mixed culture.

Claim 3 (original): The method of claim 1, wherein the remediation is carried out *in situ* or *ex situ*.

Claim 4 (original): The method of claim 1, further comprising adding a simple halogenated compound into the contaminated material.

Claim 5 (original): A method for enhancing a bioremediation process of a contaminated material comprising introducing into a contaminated material, wherein said material contains a dehalogenating organism, an effective amount of a simple halogenated compound so that the growth of the organism is stimulated or supported thereby enhancing the bioremediation process of the contaminated material.

Attorney Docket No.: RU-0224
Inventors: Fennell et al.
Serial No.: 10/828,781
Filing Date: April 21, 2004
Page 4

Claim 6 (original): The method of claim 5, wherein the dehalogenating organism is *Dehalococcoides ethenogenes* strain 195.

Claim 7 (original): The method of claim 5, further comprising adding an electron donor.

Claim 8 (original): A kit for enhancing a bioremediation process of a contaminated material comprising a simple halogenated compound.